

What is claimed is:

1. A digital storage arrangement, comprising:
a housing including a cover portion for engaging a base portion to define a housing interior;
digital storage means located within said housing interior;
a recirculation filter for filtering air that is present within said housing interior; and
a resilient arrangement positionable between said cover portion and said base portion including a sealing configuration, for sealing said housing interior, that is integrally formed with a filter support configuration for supporting said recirculation filter.
2. The digital storage arrangement of claim 1 wherein said cover portion and said base portion cooperatively define a plurality of corner regions and wherein said filter support configuration is arranged at least approximately in one of said corner regions.
3. The digital storage arrangement of claim 2 wherein said resilient arrangement is attached at least at each of said corner regions.
4. The digital storage arrangement of claim 1 wherein the filter support configuration further defines, at least part, a filter passage for directing air through the recirculation filter.
5. In producing a digital storage arrangement, a method comprising:
forming a housing including a cover portion for engaging a base portion to define a housing interior;
locating digital storage means within said housing interior;
providing a recirculation filter for filtering air that is present within said housing interior; and
positioning a resilient arrangement between said cover portion and said base portion including a sealing configuration, for sealing said housing interior, that is integrally formed with a filter support configuration for supporting said recirculation filter.
6. The method of claim 5 wherein said cover portion and said base portion cooperatively define a plurality of corner regions and arranging said filter support configuration at least approximately in one of said corner regions.
7. The method of claim 6 including attaching said resilient arrangement at least at each of said corner regions.
8. The method of claim 5 including using the filter support configuration to define, at least part, a filter passage for directing air through the recirculation filter.
9. A digital storage arrangement, comprising:
a housing including a cover portion for engaging a base portion to define a housing interior;
a latching arrangement forming part of the cover portion and part of the base portion for attaching the cover portion to the base portion;
digital storage means located within said housing interior; and

a sealing arrangement positionable between said cover portion and said base portion including a sealing configuration for sealing said housing interior.

10. The digital storage arrangement of claim 9 wherein said latching arrangement includes a plurality of latching arms as part of the cover portion, which latching arms are movable at least from an unlatched position to a latched position, and the base portion includes a plurality of latching recesses such that the latching arms in said unlatched position are alignable with the latching recesses upon placing the cover portion on the base portion and said latching arms are then movable to the latched position to attach the cover portion onto the base portion.

11. The digital storage arrangement of claim 10 wherein said cover portion is formed from a sheet material and said latching arms are stamped as an integral portion of said sheet material and said base portion defines the latching recesses.

12. In producing a digital storage arrangement, a method comprising:
forming a housing including a cover portion for engaging a base portion to define a housing interior;
configuring a latching arrangement to form part of the cover portion and part of the base portion for attaching the cover portion to the base portion;
locating digital storage means within said housing interior; and
positioning a sealing arrangement between said cover portion and said base portion including a sealing configuration for sealing said housing interior.

13. The method of claim 12 wherein said latching arrangement is configured to include a plurality of latching arms as part of the cover portion, which latching arms are movable at least from an unlatched position to a latched position, and the base portion is formed to include a plurality of latching recesses such that the latching arms in said unlatched position are alignable with the latching recesses upon placing the cover portion on the base portion and said latching arms are then movable to the latched position to attach the cover portion onto the base portion.

14. The method of claim 13 wherein said cover portion is formed from a sheet material and including stamping said latching arms as an integral portion of said sheet material and defining the latching recesses in said base portion.

15. In producing a digital storage arrangement that is interfaceable with a host device, a method comprising the steps of:

arranging a housing to include a cover portion, a base portion and a latching arrangement forming part of the cover portion and part of the base portion for attaching the cover portion to the base portion using the latching arrangement;

providing digital storage means for location within said housing;

sealing the digital storage means within the housing between attached ones of the base portion and cover portion using a sealing arrangement;

connecting a flexible electrical interface arrangement between the digital storage means and the digital storage arrangement for providing electrical communication therebetween; and

supporting the housing within said host device.

16. The method of claim 15 wherein arranging said housing includes forming a plurality of latching arms that are movable between an unlatched position and a latched position, as part of the cover portion, and defining a plurality of latching recesses, as part of said base portion, such that the latching arms, in said unlatched position, are alignable with the latching recesses upon placing the cover portion on the base portion and are then movable to the latched position to secure the cover portion onto the base portion.

17. The method of claim 16 wherein said cover portion is formed from a sheet material and said latching arms are stamped as an integral portion of said sheet material.

18. A digital storage arrangement, comprising:
a housing including a cover portion for engaging a base portion to define a housing interior;
digital storage means located within said housing interior; and
a resilient arrangement, which is integrally formed, for sealing said cover portion to said base portion with said digital storage means in said housing interior and for resiliently biasing attached ones of the cover portion and base portion away from one another.

19. The digital storage arrangement of claim 18 wherein said resilient arrangement includes a gasket portion for sealing the cover portion to the base portion and a biasing portion for resiliently biasing the cover portion away from the base portion when attached thereto.

20. The digital storage arrangement of claim 19 wherein said gasket portion is fixedly positioned in the cover portion and the gasket portion is configured for sealingly engaging the base portion.

21. The digital storage arrangement of claim 19 wherein said gasket portion is molded into position in said cover portion.

22. The digital storage arrangement of claim 19 wherein said biasing portion includes a plurality of biasing pedestals which contact one of the base portion and the cover portion to resiliently bias the base and cover portions away from one another in a controlled way.

23. The digital storage arrangement of claim 19 wherein said cover portion includes a first major side and said gasket portion is attached at least partially to an inner surface of said first major side.

24. The digital storage arrangement of claim 23 wherein said cover portion includes a peripheral sidewall extending transversely from said first major side and said gasket portion is attached at least partially to an inner area of said peripheral sidewall.

25. The digital storage arrangement of claim 19 wherein said cover portion includes a first panel defining a first major area and having a periphery and further includes a sidewall extending transversely from said periphery in a way which cooperates with the first panel to define a peripheral corner region and said gasket portion is fixedly disposed, at least in part, in said peripheral corner region.

26. The digital storage arrangement of claim 25 wherein said gasket portion is molded into the peripheral corner region.

27. The digital storage arrangement of claim 25 wherein said base portion includes a peripheral sealing rim that is configured to engage the gasket portion to seal the digital storage means within said housing.

28. The digital storage arrangement of claim 19 wherein said cover portion defines a plurality of through-holes into which said resilient arrangement is molded to serve, at least in part, to positionally retain the gasket portion and the resilient arrangement.

29. The digital storage arrangement of claim 28 wherein said cover portion includes a first panel defining a major surface of the cover portion and which defines said through-holes.

30. In producing a digital storage arrangement, a method comprising:
forming a housing including a cover portion and base portion such that the cover portion engages the base portion to define a housing interior;
locating digital storage means within said housing interior; and
configuring a resilient arrangement, which is integrally formed, for sealing said cover portion to said base portion with said digital storage means in said housing interior and for resiliently biasing attached ones of the cover portion and base portion away from one another.

31. The method of claim 30 wherein said resilient arrangement is configured to include a gasket portion for sealing the cover portion to the base portion and a biasing portion for resiliently biasing the cover portion away from the base portion when attached thereto.

32. The method of claim 31 including fixedly positioning said gasket portion in the cover portion such that the gasket portion is configured for sealingly engaging the base portion.

33. The method of claim 31 including molding said gasket portion into position in said cover portion.

34. The method of claim 31 wherein said biasing portion is formed to include a plurality of biasing pedestals which contact one of the base portion and the cover portion to resiliently bias the base and cover portions away from one another in a controlled way.

35. The method of claim 31 wherein said cover portion formed to include a first major side and configuring the resilient arrangement includes attaching said gasket portion at least partially to an inner surface of said first major side.

36. The method of claim 35 wherein said cover portion is formed to include a peripheral sidewall extending transversely from said first major side and attaching said gasket portion at least partially to an inner area of said peripheral sidewall.

37. The method of claim 31 wherein said cover portion is formed to include a first panel defining a first major area and having a periphery and to include a sidewall extending transversely from said periphery in a way which

cooperates with the first panel to define a peripheral corner region and including fixedly disposing said gasket portion, at least in part, in said peripheral corner region.

38. The method of claim 37 wherein fixedly disposing includes molding said gasket portion into the peripheral corner region.

39. The method of claim 37 wherein forming the base portion includes arranging a peripheral sealing rim that is configured to engage the gasket portion to seal the digital storage means within said housing.

40. The method of claim 31 wherein said cover portion is formed to define a plurality of through-holes and molding includes forming the resilient arrangement into each through-hole to serve, at least in part, to positionally retain the gasket portion and the resilient arrangement.

41. A digital storage configuration, comprising:
a housing including a cover portion and a base portion configured for cooperatively defining a housing cavity;
digital storage means supported within said housing cavity;
a recirculation filter for filtering air within the housing cavity; and
an arrangement that is integrally formed from a resilient material (i) for sealing the cover portion against the base portion and (ii) for at least partially supporting said recirculation filter within the housing cavity.

42. The digital storage configuration of claim 41 wherein said arrangement further defines, at least partially, a filter passage for directing air through the recirculation filter.

43. The digital storage configuration of claim 41 wherein said arrangement is supported by one of the base portion and cover portion such that attaching the cover portion to the base portion captures the recirculation filter between the cover portion and the base portion.

44. The digital storage configuration of claim 41 wherein said cover portion includes a sealing periphery and said base portion defines a peripheral sealing lip and said arrangement is configured to cooperate with the sealing periphery and the peripheral sealing lip in a way which seals the cover portion to the base portion and said arrangement is supported by one of the base portion and cover portion such that attaching the cover portion to the base portion captures the recirculation filter between the cover portion and the base portion.

45. In producing a digital storage configuration, a method comprising the steps of:
configuring a housing including a cover portion and a base portion for cooperatively defining a housing cavity;
supporting digital storage means within said housing cavity;
providing a recirculation filter for filtering air within the housing cavity; and
using a resilient material, integrally forming an arrangement (i) for sealing the cover portion against the base portion and (ii) for at least partially supporting said recirculation filter within the housing cavity.

46. The method of claim 45 wherein the step of forming said arrangement includes the step of defining, at least partially, a filter passage for directing air through the recirculation filter.

47. The method of claim 45 including supporting said arrangement using one of the base portion and cover portion such that attaching the cover portion to the base portion captures the recirculation filter between the cover portion and the base portion.

48. The method of claim 45 wherein said cover portion includes a sealing periphery and said base portion defines a peripheral sealing lip and said method includes supporting said arrangement using one of the base portion and cover portion, configuring said arrangement to cooperate with the sealing periphery and the peripheral sealing lip to seal attached ones of the cover portion and the base portion, and attaching the cover portion to the base portion to capture the recirculation filter between the cover portion and the base portion.

49. A digital storage arrangement which is electrically interfaceable with a host device, said digital storage arrangement comprising:

digital storage means susceptible to a mechanical shock, at least to a limited extent;

a base arrangement supporting said digital storage means; and

a cover arrangement attached to the base arrangement for housing the digital storage means within a cavity that is cooperatively defined by attached ones of the base arrangement and the cover arrangement in a way which permits movement of the base arrangement relative to the cover arrangement and said cover arrangement is configured for engagement by said host device such that the base arrangement, and digital storage means supported thereby, are at least partially isolated from said mechanical shock received by the host device by movement of the base arrangement relative to the cover arrangement.

50. The digital storage arrangement of claim 49 including a resilient arrangement having a damping portion positioned between the base arrangement and the cover arrangement such that a sufficient amount of relative movement between the base arrangement and the cover arrangement compresses the damping portion to isolate the base arrangement and digital storage means supported thereby from the mechanical shock.

51. The digital storage arrangement of claim 50 wherein said cover portion includes a peripheral sidewall defining a plurality of cover corners and the base arrangement defines a plurality of base corners corresponding to said cover corners such that, when the base arrangement is attached to the cover arrangement, each base corner is in a spaced-apart relationship with one of the cover corners and said damping portion includes a plurality of corner cushions, one of which is positioned between each spaced-apart base corner and cover corner.

52. The digital storage arrangement of claim 50 wherein said resilient arrangement includes a sealing portion, integrally formed with the damping portion, for sealing attached ones of the cover arrangement and the base arrangement to one another.

53. The digital storage arrangement of claim 50 wherein said resilient arrangement includes an integrally formed biasing portion for providing a biasing force to resiliently bias attached ones of the cover arrangement and base arrangement away from one another and for serving as part of said damping portion at least to limit movement of the cover arrangement and base arrangement towards one another in a direction that is generally opposite of said biasing force.

54. The digital storage arrangement of claim 53 wherein said resilient arrangement includes at least two latching arms forming part of said cover arrangement for selectively retaining the base arrangement on the cover arrangement in a way which permits said relative movement.

55. In the manufacture of a digital storage arrangement which is electrically interfaceable with a host device and which includes digital storage means that is susceptible to a mechanical shock, at least to a limited extent, a method comprising the steps of:

supporting said digital storage means using a base arrangement;

attaching the base arrangement to a cover arrangement to position the digital storage means within a cavity that is cooperatively defined by the attached base arrangement and cover arrangement in a way which permits movement of the base arrangement relative to the cover arrangement; and

configuring the cover arrangement for engaging said host device such that the base arrangement and the digital storage means supported thereby are at least partially isolated from said mechanical shock received by the host device by movement of the base arrangement relative to the cover arrangement.

56. The method of claim 55 including the step of positioning a damping arrangement between the base arrangement and the cover arrangement such that a sufficient amount of relative movement between the base arrangement and the cover arrangement compresses the damping arrangement to at least partially isolate the base arrangement and digital storage means supported thereby from the mechanical shock.

57. The method of claim 56 wherein said cover portion includes a peripheral sidewall defining a plurality of cover corners and the base arrangement defines a plurality of base corners corresponding to said cover corners such that, when the base arrangement is attached to the cover arrangement, each base corner is in a spaced-apart relationship with one of the cover corners and said positioning step places the damping arrangement at least generally between each spaced-apart base corner and cover corner.

58. The method of claim 56 including the step of integrally forming a resilient arrangement which includes said damping arrangement and which further includes a sealing portion for sealing attached ones of the cover arrangement and the base arrangement to one another.

59. The method of claim 58 wherein the step of integrally forming said resilient arrangement includes the step of forming a biasing portion for providing a biasing force to resiliently bias attached ones of the cover arrangement and base arrangement away from one another and for serving as part of said damping portion at least to limit movement of the cover arrangement and base arrangement towards one another in a direction that is generally opposite of said biasing force.

60. The method of claim 59 including the step of forming at least two latching arms, as part of said cover arrangement, for selectively retaining the base arrangement to the cover arrangement in a way which permits said relative movement.

61. A digital storage arrangement, comprising:

a housing including a cover portion that is selectively attachable with a base portion for defining a housing interior, each of said cover portion and said base portion defining a major surface and at least one of said cover portion and said base portion including a peripheral sidewall having at least one transverse surface which extends generally transversely to and surrounds said major surface thereof so as to at least generally surround the housing interior of attached ones of the cover portion and base portion;

digital storage means positioned within said housing interior; and

a resilient arrangement at least partially between attached ones of said cover portion and said base portion at least for sealing attached ones of the cover portion and the base portion to one another, at least in part, by forming a seal against said transverse surface such that relative movement of attached ones of the cover portion and the base portion toward and away from one another cause said seal to slidingly move against said transverse surface in a direction that is at least generally normal to the major surface of each of the base portion and the cover portion.

62. The digital storage arrangement of claim 61 wherein said resilient arrangement includes an integrally formed biasing portion for resiliently biasing attached ones of the cover portion and the base portion away from one another.

63. The digital storage arrangement of claim 62 wherein said resilient arrangement is sealingly attached to said cover portion and said transverse surface is defined by the base portion.

64. In producing a digital storage arrangement, a method comprising:

forming a housing including a cover portion that is selectively attachable with a base portion for defining a housing interior, each of said cover portion and said base portion defining a major surface and at least one of said cover portion and said base portion including a peripheral sidewall having at least one transverse surface which extends generally transversely to and surrounds said major surface thereof so as to at least generally surround the housing interior of attached ones of the cover portion and base portion;

positioning digital storage means within said housing interior; and

arranging a resilient arrangement at least partially between attached ones of said cover portion and said base portion at least for sealing the attached ones of the cover portion and the base portion to one another, at least in part, by forming a seal against said transverse surface such that relative movement of attached ones of the cover portion and the base portion toward and away from one another causes said seal to slidingly move against said transverse surface in a direction that is at least generally normal to the major surface of each of the base portion and the cover portion.

65. The method of claim 64 including forming said resilient arrangement with an integrally formed biasing portion for resiliently biasing attached ones of the cover portion and the base portion away from one another.

66. The method of claim 65 including sealingly attaching the resilient arrangement to said cover portion and using said base portion to define said transverse surface.